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FILE 'USPAT2' ENTERED AT 16:44:08 ON 20 DEC 2004

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FILE 'JAPIO' ENTERED AT 16:44:08 ON 20 DEC 2004

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=> s carbomer

L1 7004 CARBOMER

=> s pentaerythritol

L2 73882 PENTAERYTHRITOL

=> s l2 and ((triallyl or allyl)(1w) ether))(1a)pentaerythritol
UNMATCHED RIGHT PARENTHESIS 'ETHER')(1A'

The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s l2 and ((triallyl or allyl)(1w) ether)(1a)pentaerythritol

L3 1192 L2 AND ((TRIALLYL OR ALLYL)(1W) ETHER)(1A) PENTAERYTHRITOL

=> s l1 and l3

L4 178 L1 AND L3

=> s l4 and polyacrylic acid or (acrylic acid)(1a)(polymer or copolymer)

L5 65251 L4 AND POLYACRYLIC ACID OR (ACRYLIC ACID)(1A)(POLYMER OR COPOLY
MER)

=> s l4 and hydrogel#

L6 15 L4 AND HYDROGEL#

=> d l6 1-15 ibib abs

L6 ANSWER 1 OF 15 USPATFULL on STN

ACCESSION NUMBER: 2004:260208 USPATFULL

TITLE: Antimicrobial wound covering article

INVENTOR(S): Meyer-Ingold, Wolfgang, Hamburg, GERMANY, FEDERAL
REPUBLIC OF

Kartheus, Holger, Hamburg, GERMANY, FEDERAL REPUBLIC OF

Schink, Michael, Hamburg, GERMANY, FEDERAL REPUBLIC OF

Bogdahn, Michael, Buxtehude-Neukloster, GERMANY,

FEDERAL REPUBLIC OF

Quandt, Jurgen Christian, Klein Nordende, GERMANY,

FEDERAL REPUBLIC OF

Gade, Christian, Neu Wulmstorf, GERMANY, FEDERAL

REPUBLIC OF

Berg, Thorsten, Hamburg, GERMANY, FEDERAL REPUBLIC OF

Janichen, Jan, Hamburg, GERMANY, FEDERAL REPUBLIC OF

PATENT ASSIGNEE(S): BEJERSDORF AG, Hamburg, GERMANY, FEDERAL REPUBLIC OF
(non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 2004202703 A1 20041014
 APPLICATION INFO.: US 2003-681236 A1 20031009 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2003-10316156	20030409
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	GREENBLUM & BERNSTEIN, P.L.C., 1950 ROLAND CLARKE PLACE, RESTON, VA, 20191	
NUMBER OF CLAIMS:	103	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	1998	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An antimicrobial polymeric composite for use in wound management products. The composite comprises a polymeric material which is suitable for prolonged direct contact with a wound. At least a part of the polymeric material is associated with a glass which comprises an antimicrobial element M, preferably silver. This abstract is neither intended to define the invention disclosed in this specification nor intended to limit the scope of the invention in any way.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 2 OF 15 USPATFULL on STN
 ACCESSION NUMBER: 2004:120036 USPATFULL
 TITLE: Cosmetic preparations for shaving using a shaving device
 INVENTOR(S): Heike, Kerstin, Hamburg, GERMANY, FEDERAL REPUBLIC OF
 Kaden, Waltraud, Halstenbek, GERMANY, FEDERAL REPUBLIC OF
 Gohla, Sven, Hamburg, GERMANY, FEDERAL REPUBLIC OF
 PATENT ASSIGNEE(S): Beiersdorf AG (non-U.S. corporation)
 Koninklijke Philips Electronics (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004091441	A1	20040513
APPLICATION INFO.:	US 2003-443585	A1	20030522 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 2001-EP13512, filed on 21 Nov 2001, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2000-10057925	20001122
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	ALSTON & BIRD LLP, BANK OF AMERICA PLAZA, 101 SOUTH TRYON STREET, SUITE 4000, CHARLOTTE, NC, 28280-4000	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
LINE COUNT:	661	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Cosmetic preparations, in particular shaving gels, which are suitable for shaving using a mechanical shaving device, in particular an electric shaving device, characterized by a content of

- (1) one or more N-acyl sarcosinates,
- (2) one or more polysaccharides,
- (3) one or more substances which form a gel structure in water, which are not polysaccharides and which advantageously have interface-active

properties,

(4) one or more solubility promoters, preferably chosen from the group of polyethoxylated saturated fat or oil components, and

(5) water.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 3 OF 15 USPATFULL on STN

ACCESSION NUMBER: 2004:100787 USPATFULL
TITLE: Topical compositions and methods for treating pain
INVENTOR(S): Williams, Robert O., Austin, TX, UNITED STATES
Zhang, Feng, Austin, TX, UNITED STATES
PATENT ASSIGNEE(S): EpiCept Corporation (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004076648	A1	20040422
APPLICATION INFO.:	US 2003-669258	A1	20030925 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-931293, filed on 17 Aug 2001, GRANTED, Pat. No. US 6638981		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	JONES DAY, 51 Louisiana Aveue, N.W, WASHINGTON, DC, 20001-2113		
NUMBER OF CLAIMS:	57		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2001		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Topical compositions and methods for treating pain. The invention provides oil-in-water emulsions comprising an antidepressant; an NMDA-receptor antagonists; a lipophilic component; water; and a surfactant. The compositions induce a local-anesthetic effect when topically administered to intact skin thereby treating or preventing pain, for example, neuropathic pain.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 15 USPATFULL on STN

ACCESSION NUMBER: 2003:318283 USPATFULL
TITLE: Skin cosmetic formulations
INVENTOR(S): Gotsche, Michael, Mannheim, UNITED KINGDOM
Wood, Claudia, Weinheim, GERMANY, FEDERAL REPUBLIC OF
Dieing, Reinhold, Schifferstadt, GERMANY, FEDERAL
REPUBLIC OF
Jentzsch, Axel, Mannheim, GERMANY, FEDERAL REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003224025	A1	20031204
APPLICATION INFO.:	US 2003-362059	A1	20030220 (10)
	WO 2001-EP9438		20010816

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2000-100412203	20000822
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Keil & Weinkauff, 1101 Connecticut Avenue N W, Washington, DC, 20036	
NUMBER OF CLAIMS:	22	
EXEMPLARY CLAIM:	1	
LINE COUNT:	2088	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The use of polymers obtainable by free-radical polymerization of

a) at least one vinyl ester of C.sub.1-C.sub.24-carboxylic acids in the presence of

b) polyether-containing compounds having a molecular weight of at least 300, and

c) optionally one or more further copolymerizable monomers in skin cosmetic formulations and in decorative cosmetics.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 5 OF 15 USPATFULL on STN

ACCESSION NUMBER: 2003:293921 USPATFULL

TITLE: Cosmetic agent containing 2-furanone derivatives

INVENTOR(S): Schulze zur Wiesche, Erik, Hamburg, GERMANY, FEDERAL
REPUBLIC OF
Hollenberg, Detlef, Erkrath, GERMANY, FEDERAL REPUBLIC
OF
Bossmann, Britta, Erkrath, GERMANY, FEDERAL REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003206933	A1	20031106
APPLICATION INFO.:	US 2002-289061	A1	20021106 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 2001-EP4822, filed on 28 Apr 2001, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2000-10022077	20000506
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Henkel Corporation, Law Department, Suite 200, 2500 Renaissance Blvd., Gulph Mills, PA, 19406	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
LINE COUNT:	3020	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB There is provided cosmetic agents containing 2-furanone derivatives for the treatment of skin and hair.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 6 OF 15 USPATFULL on STN

ACCESSION NUMBER: 2003:283298 USPATFULL

TITLE: Use of hydrophilic graft copolymers containing
n-vinylamine and/or open-chain n-vinylamide units in
cosmetic formulations

INVENTOR(S): Schneider, Tanja, Bensheim, GERMANY, FEDERAL REPUBLIC
OF
Gotsche, Michael, Mannheim, GERMANY, FEDERAL REPUBLIC
OF
Negele, Anton, Deidesheim, GERMANY, FEDERAL REPUBLIC OF
Kim, Son Nguyen, Hemsbach, GERMANY, FEDERAL REPUBLIC OF
Frenzel, Stefan, Mannheim, GERMANY, FEDERAL REPUBLIC OF
Wood, Claudia, Weinheim, GERMANY, FEDERAL REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003199642	A1	20031023
APPLICATION INFO.:	US 2003-362053	A1	20030220 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2000-10041211	20000822
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	KEIL & WEINKAUF, 1350 CONNECTICUT AVENUE, N.W., WASHINGTON, DC, 20036	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	1	
LINE COUNT:	2701	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to the use of graft copolymers obtained by radical graft copolymerisation of a) at least one open-chained N-vinylamide compound of general formula (I) wherein R.sup.1, R.sup.2, R.sup.3 represents H or C.sub.1-C.sub.6-alkyl and b) optionally, one or several other copolymerizeable monomers on a polymergraft base c) for cosmetic applications, with the proviso that if the polymer graft base is compound containing polyether, the copolymerizeable polymer b) does not represent vinylster. ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 7 OF 15 USPATFULL on STN

ACCESSION NUMBER: 2003:219333 USPATFULL
TITLE: Responsive microgel and methods related thereto
INVENTOR(S): Bromberg, Lev E., Swampscott, MA, UNITED STATES
Temchenko, Marina, Swampscott, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003152623	A1	20030814
APPLICATION INFO.:	US 2002-298808	A1	20021118 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-352200P	20020129 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Mathews, Collins, Shepherd & McKay, P.A., Suite 306, 100 Thanet Circle, Princeton, NJ, 08540	
NUMBER OF CLAIMS:	20	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	16 Drawing Page(s)	
LINE COUNT:	3784	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A responsive microgel is provided which responds volumetrically and reversibly to a change in one or more aqueous conditions selected from the group consisting of (temperature, pH, and ionic conditions) comprised of an ionizable network of covalently cross-linked homopolymeric ionizable monomers wherein the ionizable network is covalently attached to an amphiphilic copolymer to form a plurality of `dangling chains` and wherein the `dangling chains` of amphiphilic copolymer form immobile micelle-like aggregates in aqueous solution. A responsive microgel is further provided that comprises at least one therapeutic entity and delivers a substantially linear and sustained release of the therapeutic entity under physiological conditions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 8 OF 15 USPATFULL on STN

ACCESSION NUMBER: 2003:119740 USPATFULL
TITLE: Sterile, breathable patch for treating wound pain

INVENTOR(S): Mason, Paul Arthur, Flemington, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003082225	A1	20030501
APPLICATION INFO.:	US 2001-45730	A1	20011019 (10)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	PENNIE AND EDMONDS, 1155 AVENUE OF THE AMERICAS, NEW YORK, NY, 100362711		
NUMBER OF CLAIMS:	53		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1480		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An intradermal patch having a permeable backing coated with a polyvinylpyrrolidone-based **hydrogel** and containing one or more local anesthetics. The patch is breathable, non-irritating upon application and removal, soothing, and sterile. The patch is useful for treating the pain associated with non-intact skin indications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 9 OF 15 USPATFULL on STN
ACCESSION NUMBER: 2003:119729 USPATFULL
TITLE: Topical compositions and methods for treating pain
INVENTOR(S): Williams, Robert O., Austin, TX, UNITED STATES
Zhang, Feng, Austin, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003082214	A1	20030501
	US 6638981	B2	20031028
APPLICATION INFO.:	US 2001-931293	A1	20010817 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	PENNIE AND EDMONDS, 1155 AVENUE OF THE AMERICAS, NEW YORK, NY, 100362711		
NUMBER OF CLAIMS:	57		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2008		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Topical compositions and methods for treating pain. The invention provides oil-in-water emulsions comprising an antidepressant; an NMDA-receptor antagonists; a lipophilic component; water; and a surfactant. The compositions induce a local-anesthetic effect when topically administered to intact skin thereby treating or preventing pain, for example, neuropathic pain.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 10 OF 15 USPATFULL on STN
ACCESSION NUMBER: 2003:10257 USPATFULL
TITLE: Treatment of trauma
INVENTOR(S): Franklin, Richard, London, UNITED KINGDOM
Cowling, Didier S. P., Zurich, SWITZERLAND
Hubbell, Jeffrey A., Zurich, SWITZERLAND
van de Wetering, Petra, Zurich, SWITZERLAND

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003007951	A1	20030109
APPLICATION INFO.:	US 2001-938269	A1	20010823 (9)

NUMBER DATE

PRIORITY INFORMATION: US 2000-227143P 20000823 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: ALLEN BLOOM, C/O DECHERT, PRINCETON PIKE CORPORATION
CENTER, P.O. BOX 5218, PRINCETON, NJ, 08543-5218
NUMBER OF CLAIMS: 26
EXEMPLARY CLAIM: 1
LINE COUNT: 1969

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Provided is a method of treating an area affected by a trauma, such as a corneal wound or internal trauma, comprising administering to the affected area a trauma treating effective amount of a composition comprising a polyanionic polymer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 11 OF 15 USPATFULL on STN

ACCESSION NUMBER: 2002:315193 USPATFULL
TITLE: Novel polymer compounds
INVENTOR(S): Hubbell, Jeffrey A., Zurich, SWITZERLAND
Wetering, Petra van de, Zurich, SWITZERLAND
Cowling, Didier S.P., Zurich, SWITZERLAND

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002177680	A1	20021128
APPLICATION INFO.:	US 2001-938286	A1	20010823 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-227169P	20000823 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	ALLEN BLOOM, C/O DECHERT, PRINCETON PIKE CORPORATION CENTER, P.O. BOX 5218, PRINCETON, NJ, 08543-5218	
NUMBER OF CLAIMS:	12	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1586	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Provided is a composition comprising a pre-formed, hydrolytically susceptible non-addition polyanionic polymer comprising polymer strands formed from at least one ethylenically unsaturated monomer and linking the polymer strands by at least one linking moiety comprising a hydrolytically susceptible bond, wherein at least one of which monomers has: i) one or more functional groups that can be titrated with base to form negatively charged functional groups; or ii) one or more precursor groups that are precursors of the functional groups that can be titrated with base; which precursor groups are converted to the functional groups.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 12 OF 15 USPATFULL on STN

ACCESSION NUMBER: 2001:136174 USPATFULL
TITLE: Ophthalmic composition including a cationic glycoside and an anionic therapeutic agent
INVENTOR(S): Ellis, Edward James, Lynnfield, MA, United States
Ellis, Jeanne Yang, Lynnfield, MA, United States
PATENT ASSIGNEE(S): Bausch & Lomb Incorporated, Rochester, NY, United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 6277365 B1 20010821
 APPLICATION INFO.: US 1997-932676 19970918 (8)
 DOCUMENT TYPE: Utility
 FILE SEGMENT: GRANTED
 PRIMARY EXAMINER: Fay, Zohreh
 LEGAL REPRESENTATIVE: Furr, Jr., Robert B.
 NUMBER OF CLAIMS: 26
 EXEMPLARY CLAIM: 1
 LINE COUNT: 705

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB There are disclosed compositions and methods for treating the surface of the eye, or contact lenses to be placed on the eye, with an aqueous composition comprising a quaternary nitrogen-containing ethoxylated glycoside and a therapeutic agent. The subject invention is particularly suited for use with silicone-containing contact lenses. Examples of specific compositions include aqueous solutions of lauryl methyl gluceth-10 hydroxypropyl-dimonium chloride in combination with anionic polysaccharides such as hyaluronic acid.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 13 OF 15 USPATFULL on STN

ACCESSION NUMBER: 1999:142014 USPATFULL
 TITLE: Emulsion eye drop for alleviation of dry eye related symptoms in dry eye patients and/or contact lens wearers
 INVENTOR(S): Ding, Shulin, Irvine, CA, United States
 Olejnik, Orest, Trabuco Canyon, CA, United States
 Reis, Brenda L., Costa Mesa, CA, United States
 PATENT ASSIGNEE(S): Allergan, Irvine, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5981607		19991109
APPLICATION INFO.:	US 1998-8924		19980120 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Russel, Jeffrey E.		
LEGAL REPRESENTATIVE:	Hackler, Walter A.		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	459		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An eye drop composition for alleviation of dry eye related symptoms in dry eye patients and contact lens wearers includes an emulsion of a higher fatty acid glyceride, polysorbate 80 and an emulsion stabilizing amount of Pemulen® in water suitable for topical application to ocular tissue.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 14 OF 15 USPATFULL on STN

ACCESSION NUMBER: 92:67806 USPATFULL
 TITLE: Nail stain remover
 INVENTOR(S): Castrogiovanni, Anthony, Belford, NJ, United States
 Sandewicz, Robert W., Spotswood, NJ, United States
 Benedicto, Cecilia, Plainview, NY, United States
 PATENT ASSIGNEE(S): Revlon, Inc., New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5139570		19920818

APPLICATION INFO.: US 1991-690460 19910424 (7)
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Bell, Mark L.
ASSISTANT EXAMINER: Klemanski, Helene
LEGAL REPRESENTATIVE: Blackburn, Julie
NUMBER OF CLAIMS: 13
EXEMPLARY CLAIM: 1
LINE COUNT: 213

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A nail cleansing composition useful for removing stains from human nails, nail stain removing kits, and a method for removing stains from nails using the composition of the invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 15 OF 15 USPAT2 on STN

ACCESSION NUMBER: 2003:119729 USPAT2
TITLE: Topical compositions and methods for treating pain
INVENTOR(S): Williams, Robert O., Austin, TX, United States
Zhang, Feng, Austin, TX, United States
PATENT ASSIGNEE(S): EpiCept Corporation, Englewood Cliffs, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6638981	B2	20031028
APPLICATION INFO.:	US 2001-931293		20010817 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Venkat, Jyothsna		
LEGAL REPRESENTATIVE:	Pennie & Edmonds, LLP		
NUMBER OF CLAIMS:	9		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		
LINE COUNT:	1838		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Topical compositions and methods for treating pain. The invention provides oil-in-water emulsions comprising an antidepressant; an NMDA-receptor antagonists; a lipophilic component; water; and a surfactant. The compositions induce a local-anesthetic effect when topically administered to intact skin thereby treating or preventing pain, for example, neuropathic pain.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 16 14 hit

L6 ANSWER 14 OF 15 USPATFULL on STN

DETD The essential constituents of the invention are contained in a cosmetically suitable vehicle such as an oil in water emulsion, water, an anhydrous carrier or an aqueous composition comprised of water and a carbopol type gel. Anhydrous vehicles are such as oils gelled with bentonite clays or oils gelled with silica. Water may be used alone or combined with a Carbopol.TM. type gel such as **carbomer** 910, **carbomer** 934P, **carbomer** 940, **carbomer** 941, which are either a polymer of acrylic acid crosslinked with an allyl ether of pentaerythritol or sucrose, magnesium aluminum silicate, PVP **hydrogels**. The former is the preferred vehicle.

DETD

	W/W %
Water Phase	Pref'd. Amt. Pref'd. Range

Water, deionized	58.399	50-75
Pumice, 2F Grade	5.00	1-25
Pumice, 4F Grade	10.00	1-25
Propylene Glycol	10.00	1-15
PEG-20 Methyl glucose ether		
	10.00	1-15
Titanium Dioxide	5.00	1-15
FD&C Blue #1	0.001	0.0001-0.005
Triethanolamine	0.50	0.10-2.50
Phenoxy ethanol	0.75	0.10-1.00
Methyl paraben	0.10	0.10-1.00
Carbomer 940	0.25	0.10-1.00

DETD

Water Phase	W/W % Pref'd. Amt.	Pref'd. Range
Water	67.27	40-70
Carbomer 940	0.75	0.1-1.5
Propylene Glycol	10.00	5-15
PEG-20 Methyl Glucose Ether		
	10.00	5-15
Kaolin	5.00	1-20
Titanium Dioxide	1.00	1-10
Triethanolamine	0.98	0.5-1.5
Pumice 2F Grade	5.00	1-10

CLM

What is claimed is:

1. A composition useful for removing stains from human nails comprising (a) about 1-25 wt% of an abrasive agent (b) about 1-20 wt% of one or more white pigments in a cosmetically suitable vehicle selected from the group consisting of an aqueous solution of acrylic acid cross linked with the allyl ether of sucrose and an aqueous solution of acrylic acid cross linked with the **allyl ether of pentaerythritol**.

13. A method for removing stains from human nails comprising cleansing nails with a nail stain removing composition comprising: (a) about 1-25 wt% of an abrasive agent (b) about 1-20 wt% of one or more white pigments in a cosmetically suitable vehicle selected from the group consisting of an aqueous solution of acrylic acid cross linked with the allyl ether of sucrose and an aqueous solution of acrylic acid cross linked with the **allyl ether of pentaerythritol**.

=> d 16 14 all

L6 ANSWER 14 OF 15 USPATFULL on STN
AN 92:67806 USPATFULL
TI Nail stain remover
IN Castrogiovanni, Anthony, Belford, NJ, United States
Sandewicz, Robert W., Spotswood, NJ, United States
Benedicto, Cecilia, Plainview, NY, United States
PA Revlon, Inc., New York, NY, United States (U.S. corporation)
PI US 5139570 19920818
AI US 1991-690460 19910424 (7)
DT Utility
FS Granted
REP US 1878102 Sep 1932 252/170.000 Bradley
US 2393864 Jan 1946 252/170.000 Fransisco
US 2971920 Feb 1961 252/170.000 Wurmbock

US 3150048	Sep 1964	424/061.000	Hollub
US 3441645	Apr 1969	424/061.000	McKissick
US 3729569	Apr 1973	424/061.000	Charle
US 4009114	Feb 1977	252/109.000	Yurko
US 4032464	Jun 1977	424/061.000	Mausner
US 4034769	Jul 1977	132/076.400	Nishimura
US 4071333	Jan 1978	106/003.000	Like
US 4129527	Dec 1978	252/528.000	Clark et al.
US 4137302	Jan 1979	424/061.000	Humbert
US 4181633	Jan 1980	106/003.000	Colodney et al.
US 4344932	Aug 1982	424/061.000	Gordon
US 4381792	May 1983	132/076.400	Busch, Jr. et al.
US 4407722	Oct 1983	252/174.000	Davies
US 4482538	Nov 1984	424/061.000	Davies
US 4485037	Nov 1984	134/038.000	Curtis
US 4530726	Jul 1985	134/038.000	Monteil
US 4572222	Feb 1986	132/076.400	Pangburn
US 4741862	May 1988	252/527.000	Kosal
US 4804486	Feb 1989	134/038.000	Day
US 4824662	Apr 1989	424/061.000	Hofman
US 4885109	Dec 1989	252/174.210	Umemoto
US 4966609	Oct 1990	051/295.000	Callinan et al.
US 5000761	Mar 1991	106/003.000	Mayton et al.

EXNAM Primary Examiner: Bell, Mark L.; Assistant Examiner: Klemanski, Helene
 LREP Blackburn, Julie
 CLMN Number of Claims: 13
 ECL Exemplary Claim: 1
 DRWN No Drawings
 AB A nail cleansing composition useful for removing stains from human nails, nail stain removing kits, and a method for removing stains from nails using the composition of the invention.

SUMM TECHNICAL FIELD

A nail cleanser for human nails which removes various types of stains.

BACKGROUND OF THE INVENTION

The human nail is very porous and becomes more so with age. This porosity increases the tendency of nails to stain. Staining may be caused by the repeated use of nail lacquer over a prolonged period of time, nicotine from handling lighted cigarettes, or from various chemicals to which people may be exposed in their homes or occupations. Nails also yellow with age due to melamine, a brown pigment synthesized in the body by normal biological processes and carried up into the nails from the nail beds. The stains due to nail lacquers are believed to be caused by bleeding of pigimentary materials such as partially solubilized dyes into the nail. In addition, the nitrocellulose found in the nail lacquers is known to heavily contribute to nail staining. The esthetically displeasing result of stained nails has lead to different nail stain removers.

Many of the standard preparations use bleaches which are extremely drying and irritating to nails. Preparations containing strong alkali such as sodium hydroxide or alkali metal hydroxides are also known. For obvious reasons these preparations are not desirable.

In U.S. Pat. No. 4,344,932 a nail cleanser comprised of chelating agents such as EDTA and urea in a liquid carrier is disclosed. The chelating agents remove stains by complexing with the metal ions which are present in many nail stains. However some stains, such as residual dyestuffs left on nails due to lacquers, do not respond as effectively to chelating agents alone, thus resulting in a less effective cleanser. Further, urea is often irritating to tissues surrounding the nail so it

is desirable to find nail cleansing preparations which avoid these drawbacks.

SUMMARY OF THE INVENTION

The invention is directed to a composition useful for removing stains from human nails comprising the following essential constituents in a cosmetically suitable vehicle:

- a) an abrasive agent, and
- b) one or more white pigments.

The invention is also directed to a nail stain removing kit comprised of single units of porous material containing the dehydrated composition set forth above, which unit is moistened with water immediately prior to use to yield a nail cleansing pad which is used to scrub the nails.

The invention is also directed to a nail stain removing kit comprised of a container filled with the composition of the invention.

The invention is also directed to a method for removing stains from human nails comprising cleansing nails with the composition set forth above.

DETD DETAILED DESCRIPTION

The composition essentially contains an abrasive agent. Suitable abrasive agents include pumice, polyethylene granules, aluminum oxide, silica, magnesium aluminum silicate, kaolin, finely ground nut shells or diatomaceous earth. About 1-25% of abrasive agent is a suitable range. The preferred abrasive agent is pumice or magnesium aluminum silicate.

The composition also essentially contains one or more white pigments. The pigment functions by cosmetically obliterating surface nail stains. Pigments such as zinc oxide, titanium dioxide, barium sulfate, zinc sulfide are suitable, although titanium dioxide is preferred. A suitable range of white pigment is about 1-20%. The abrasive agent will polish nails by mechanical abrasion, while the stain residues are visually mitigated by the white residue left by the white pigment. The composition may additionally contain a variety of metallic salts such as aluminum chloride or aluminum chlorohydrate which react with residual dyestuffs on nails, as well as absorbents (e.g. talc, blanc fixe) and/or chelating agents (e.g. EDTA).

The essential constituents of the invention are contained in a cosmetically suitable vehicle such as an oil in water emulsion, water, an anhydrous carrier or an aqueous composition comprised of water and a carbopol type gel. Anhydrous vehicles are such as oils gelled with bentonite clays or oils gelled with silica. Water may be used alone or combined with a Carbopol.TM. type gel such as **carbomer** 910, **carbomer** 934P, **carbomer** 940, **carbomer** 941, which are either a polymer of acrylic acid crosslinked with an allyl ether of pentaerythritol or sucrose, magnesium aluminum silicate, PVP **hydrogels**. The former is the preferred vehicle.

The composition may additionally contain one or more of a solvent, solubilizer, protectant, pigment, metallic salt, humectant vitamin, conditioner emollients, humectants, thickeners, texturizers, solubilizing agents, preservatives, pigments, protectors, vitamins, conditioners, colorants, metallic salts, satabilizers or colorant.

The suitable solvents may be C.sub.1-6 organic alcohols such as

isopropanol, methanol, ethanol, isopropanol, N-methyl pyrrolidone, butyrolactone; or ethers, for example polyethylene glycol (PEG)-20 methyl glucose ether.

Solubilizers may be added to increase the solubility and consistency of the ingredients and may be selected from the glycols such as propylene glycol, butylene glycol, etc.

Various protectants may be added. The suitable protectants are well known to those skilled in the art. They may be such as polyvinyl pyrrolidone, allantoin, bisabolol, herbal and vegetal extracts, various humectants, including propylene glycol, hexylene glycol, glycerol, alkyl glucosides, alkoxyated alkyl glucosides, sorbitol, salts of hyaluronic acid, salts of pyrrolidone carboxylic acid, etc.

Various vitamins may be added for nutrient effects and include Calcium Pantothenate which is vitamin B.sub.6 Salt.

The acceptable colorants are those generally known to be suitable in cosmetics such as the FD&C and D&C colors such as Blue #1, Yellow #5, Red #4 etc. Various preservatives may be added, including phenoxyethanol, alkyl esters of p-hydroxybenzoic acid, imidazolidinyl urea, quaternium-15, etc.

Conditioners may also be added to impart therapeutic properties. Alkoxyated lanolins, alkyl glucosides, cationic surfactants, amphoteric surfactants, solubilized vegetal extracts, proteins and derivatives thereof, etc.

The composition of the invention is best marketed in a kit or single container so that the consumer may purchase a specified amount to be used over a certain period of time.

A suitable nail stain removing kit is comprised of single units of porous material containing the dehydrated composition of the invention. The single unit is a small sponge preferably with abrasive properties. Abrasive polyester pads are excellent since they have a degree of abrasiveness to them. The pad is impregnated with the wet composition of the invention and then allowed to dry. A number of dehydrated pads maybe packed into a kit or suitable package form for sale to the consumer. The user merely moistens the pad with water and uses it to scrub the nails.

The composition may be also sold in a suitable container. For example, a small squeezable plastic tube is also an excellent vehicle. The tube may be filled with a small amount of the composition in a paste form. The tube is then purchased and used by the consumer.

Also, the composition may be sold in a container similar to a mascara tube which container contains a sponge or brush type applicator. The lid of the container, to which the applicator is attached is immersed into the composition when the cap is placed onto the tube. Upon removal of the cap from the tube, the attached applicator, containing the composition of the invention, may be applied directly to the nails and the applicator used as a scrubbing or cleansing vehicle.

The instant invention will be illustrated in accordance with the following examples which are set forth for the purposes of illustration only.

EXAMPLE 1

Nail Stain Remover #1

The following ingredients were combined in the following proportions to

yield a slurry composition.

Water Phase	W/W % Pref'd. Amt.	Pref'd. Range
Water, deionized	58.399	50-75
Pumice, 2F Grade	5.00	1-25
Pumice, 4F Grade	10.00	1-25
Propylene Glycol	10.00	1-15
PEG-20 Methyl glucose ether	10.00	1-15
Titanium Dioxide	5.00	1-15
FD&C Blue #1	0.001	0.0001-0.005
Triethanolamine	0.50	0.10-2.50
Phenoxy ethanol	0.75	0.10-1.00
Methyl paraben	0.10	0.10-1.00
Carbomer 940	0.25	0.10-1.00

EXAMPLE 2

Nail Stain Remover #2

The following ingredients were combined in the following proportions to yield a slurry composition

Water Phase	W/W % Pref'd. Amt.	Pref'd. Range
Water	67.27	40-70
Carbomer 940	0.75	0.1-1.5
Propylene Glycol	10.00	5-15
PEG-20 Methyl Glucose Ether	10.00	5-15
Kaolin	5.00	1-20
Titanium Dioxide	1.00	1-10
Triethanolamine	0.98	0.5-1.5
Pumice 2F Grade	5.00	1-10

EXAMPLE 3

Nail Stain Remover #3

The following ingredients were combined in the following proportions to yield a slurry

Water Phase	W/W % Pref'd. Amt.	Pref'd. Range
Water	65.00	60-70
Magnesium Aluminum Silicate	2.00	1-10
Trisodium EDTA	5.00	1-10
Talc	2.00	1-3
PVP	0.50	0.5-2.00
Zinc oxide	4.00	1-10

CLM What is claimed is:

1. A composition useful for removing stains from human nails comprising

(a) about 1-25 wt% of an abrasive agent (b) about 1-20 wt% of one or more white pigments in a cosmetically suitable vehicle selected from the group consisting of an aqueous solution of acrylic acid cross linked with the allyl ether of sucrose and an aqueous solution of acrylic acid cross linked with the allyl ether of pentaerythritol.

2. The composition of claim 1 wherein the cosmetically suitable vehicle is an aqueous solution, an oil in water emulsion, or an anhydrous carrier.

3. The composition of claim 2 additionally containing one or more emollients, humectants, thickeners, texturizers, solubilizing agents, preservatives, fragrances, pigments, protectors, vitamins, conditioners, colorants, metallic salts, or stabilizers.

4. The composition of claim 1 wherein the abrasive agent is pumice, polyethylene granules, aluminum oxide, silica, magnesium aluminum silicate, finely ground nutshells, diatomaceous earth, or kaolin.

5. The composition of claim 4 wherein the white pigments are zinc oxide, titanium dioxide, barium sulfate or zinc sulfide.

6. The composition of claim 5 wherein the abrasive agent is pumice or magnesium aluminum silicate.

7. A nail stain removing kit comprised of single units of porous material containing the dehydrated composition of claim 1 which unit is moistened with water immediately prior to use to yield a nail cleansing pad used to scrub the nails.

8. The kit of claim 7 wherein the unit of porous material comprises an abrasive polyester pad.

9. A nail stain removing kit comprised of a container filled with the composition of claim 1.

10. The kit of claim 9 wherein the composition is in a paste form.

11. The kit of claim 9 wherein the container is a squeezable plastic tube.

12. The kit of claim 9 wherein the container is a plastic screw cap tube containing an attached applicator.

13. A method for removing stains from human nails comprising cleansing nails with a nail stain removing composition comprising: (a) about 1-25 wt% of an abrasive agent (b) about 1-20 wt% of one or more white pigments in a cosmetically suitable vehicle selected from the group consisting of an aqueous solution of acrylic acid cross linked with the allyl ether of sucrose and an aqueous solution of acrylic acid cross linked with the allyl ether of pentaerythritol.

INCL INCLM: 106/003.000
INCLS: 252/163.000; 015/104.930; 015/104.940; 132/076.400; 424/061.000
NCL NCLM: 132/075.600
NCLS: 015/104.930; 015/104.940; 106/003.000; 132/076.400; 424/061.000;
510/118.000; 510/137.000; 510/139.000; 510/241.000; 510/397.000
IC [5]
ICM: C09G001-02
ICS: B08B001-00; H45D029-17; H61K007-04
EXF 106/3; 252/163; 015/104.93; 015/104.94; 051/307; 051/308; 132/76.4;
134/38; 424/61

ARTU 118
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

82.02

82.44

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